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REMARKS

Applicants have canceled claims 1-9 without prejudice. The objected claim 11 is incorporated to the rejected claim 10 that is to be the first independent claim after this amendment. In the same manner the objected claim 24 is incorporated to the rejected claim 21. Claims 11 and 24 are canceled, accordingly.

Claims 12 and 25 are amended to numerically show dependency from the amended independent claims 10 and 21, respectively. Claims 13-20, 22-23 and 26-33 are legitimately depended from the amended independent claim 10 or 21 and therefore maintained without change.

No new matters are included in the amended claims, and the amendment does not introduce any limitations to the claims and does not narrow the scope or the breadth of the claims in any way.

CONCLUSION

The applicants believe that claims 10, 12-23 and 25-33 are now in condition for allowance; therefore, reexamination, reconsideration and allowance of the claims are respectively requested.

Very truly yours,

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MARKED-UP VERSION OF CLAIM AMENDMENTS

Claims 1-9 (canceled)

Claim 10 (currently amended): A cardiopulmonary life support system comprising:

- a) a housing defined by a top side, a bottom, a rear side, and an inner periphery;
- b) first and second tubes adjacent to each other in the housing, wherein the first and second tubes each have an input port and an output port;
- c) an alternating member attached to the housing and disposed between the first and second tubes, wherein the alternating member alternately squeezes the first and second tubes; and
- d) a valve formed in said each input and output port to prevent a reverse stream in the first and second tubes;
- e) a solid tube support fitted between said each tube and the inner periphery of the housing; and
- f) a shaft substantially parallel to the tubes, wherein the shaft has a top portion rotatably attached to the top side, a mid portion fixedly attached to the alternating member, and a bottom portion rotatably passing through the bottom side of the housing, whereby an angular reciprocal rotation of the shaft enables the alternating member to alternately squeeze the first and second tubes.

Claim 11 (canceled)

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Claim 12 (currently amended): The life support system of claim ~~11~~ 10 further comprising:

- a) a motor adjacent to the housing;
- b) a decelerator connected to the motor; and
- c) a first gear having a gear base connected to the decelerator, wherein the first gear is rotatably connected to the shaft.

Claim 13 (original): The life support system of claim 12 further comprising a second gear having a gear base attached to the bottom portion of the shaft, wherein the second gear is rotatably engaged to the first gear.

Claim 14 (original): The life support system of claim 13 wherein a male spline is fixed to the bottom portion of the shaft by a base thereof, and a female spline is fixed to the second gear base by a base thereof, wherein the male spline is detachable engaged to the female spline.

Claim 15 (original): The life support system of claim 10 wherein a support plate extends from the mid portion of the shaft fixedly to the alternating member to stabilize the angular reciprocal rotation of the alternating member.

Claim 16 (original): The life support system of claim 10 wherein the first and second tubes are linearly aligned substantially parallel with each other.

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Claim 17 (original): The life support system of claim 10 wherein the first and second tubes are each elastically, substantially restored to its original shape after being squeezed by the alternating member.

Claim 18 (original): The life support system of claim 10 wherein said each valve is a one-way valve to allow a single directional stream therethrough.

Claim 19 (original): The life support system of claim 10 wherein an initial squeezing of the alternating member on the first tube enables a blood to partially pump out from the first tube through the first tube output port, wherein a subsequent squeezing of the alternating member on the second tube enables the blood to partially pump out from the second tube through the second tube output port while a restoration of the first tube to its original shape enables the first tube to suck in as much as pumped out therefrom through the first input port valve, wherein a further subsequent squeezing of the alternating member on the first tube enables the blood to partially pump out from the first tube through the first tube output port while a subsequent restoration of the second tube to its original shaft enables the second tube to suck in as much as pumped out therefrom through the second input port valve.

Claim 20 (original): The life support system of claim 10 wherein the output port of the first tube passes through the top side and the output port of the second tube passes through the bottom side of the housing.

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Claim 21 (currently amended): A cardiopulmonary life support system comprising:

- a) a housing defined by a top side, a bottom, a rear side, and an inner periphery;
- b) first and second tubes adjacent to each other in the housing, wherein the first and second tubes each have an input port and an output port;
- c) an alternating member attached to the housing and disposed between the first and second tubes, wherein the alternating member alternately squeezes the first and second tubes;
- d) a valve formed in said each input and output port to prevent a reverse stream in the first and second tubes; and
- e) an oxygenator connected to the output port of the first tube and the input port of the second tube to convert an oxygen-depleted blood to an oxygen-rich blood;
- f) a solid tube support fitted between said each tube and the inner periphery of the housing; and
- g) a shaft substantially parallel to the tubes, wherein the shaft has a top portion rotatably attached to the top side, a mid portion fixedly attached to the alternating member, and a bottom portion rotatably passing through the bottom side of the housing, whereby an angular reciprocal rotation of the shaft enables the alternating member to alternately squeeze the first and second tubes.

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Claim 22 (original): The life support system of claim 21 further comprising first and second blood storages, wherein the first blood storage is formed between the oxygenator and the input port of the first tube to temporarily store therein the oxygen-rich blood oxygenated in the oxygenator, wherein the second blood storage is connected to the output port of the second tube to temporarily store therein the oxygen-depleted blood.

Claim 23 (original): The life support system of claim 22 wherein an initial squeezing of the alternating member on the first tube enables the oxygen-rich blood to partially pump out from the first tube through the first tube output port, wherein a subsequent squeezing of the alternating member on the second tube enables the oxygen-depleted blood to partially pump out from the second tube through the second output port while a restoration of the first tube to its original shape enables the first tube to suck in as much as pumped out therefrom through the first input port valve, wherein a further subsequent squeezing of the alternating member on the first tube enables the oxygen-rich blood to partially pump out from the first tube through the first output port while a subsequent restoration of the second tube to its original shaft enables the second tube to suck in as much as pumped out therefrom through the second input port valve.

Claim 24 (canceled)

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Claim 25 (currently amended): The life support system of claim ~~24~~ 21 further comprising:

- a) a motor adjacent to the housing;
- b) a decelerator connected to the motor; and
- c) a first gear having a gear base connected to the decelerator, wherein the first gear is rotatably connected to the shaft.

Claim 26 (original): The life support system of claim 25 further comprising a second gear having a gear base attached to the bottom portion of the shaft, wherein the second gear is rotatably engaged to the first gear.

Claim 27 (original): The life support system of claim 26 wherein a male spline is fixed to the bottom portion of the shaft by a base thereof, and a female spline is fixed to the second gear base by a base thereof, wherein the male spline is detachably engaged to the female spline.

Claim 28 (original): The life support system of claim 27 wherein a support plate extends from the mid portion of the shaft fixedly to the alternating member to stabilize the angular reciprocal rotation of the alternating member.

Claim 29 (original): The life support system of claim 28 wherein the first and second tubes are linearly aligned substantially parallel with each other.

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Claim 30 (original): The life support system of claim 29 wherein the first and second tubes are each elastically restored to its original shape after being squeezed by the alternating member.

Claim 31 (original): The life support system of claim 30 wherein said each valve is a one-way valve to allow a single directional stream therethrough.

Claim 32 (original): The life support system of claim 31 wherein the output port of the first tube passes through the top side and the output port of the second tube passes through the bottom side of the housing.

Claim 33 (original) The life support system of claim 21 wherein the first tube output port is to be connected to an aorta of a mammal body and the second tube input port is to be connected to a main vein of the mammal body, whereby the oxygen-depleted blood from the main vein is oxygenated and regularly pumped out into the aorta.